

**AUTOMATIC SUB DOMAIN DELEGATION OF PRIVATE NAME
SPACES FOR HOME-TO-HOME VIRTUAL PRIVATE NETWORKS**

ABSTRACT OF THE DISCLOSURE

5 Methods, systems, and gateways are disclosed for attaching a private
name space of a home network to a private name space of another home
network. A name and an IP address of a remote home network are received via
a virtual private network (VPN) tunnel coupling the remote home network and
a local home network. The configuration of a DNS server of the local home
10 network is updated to delegate the one or more names of the remote network to
a remote gateway of the remote home network. A name and an IP address of
the local home network are transmitted via the VPN tunnel to the remote home
network. Methods, systems, and gateways are also disclosed for resolving a
name request in a private name space of a home network with which a private
15 name space of another home network is attached.